

Patent Claims

1. A flushing device comprising a container (2) and at least one pressurized chamber (15, 115, 204, 205, 305, 306), having an actuating device (56) for initiating a flushing process, an outlet valve (5) in the lower region of the container (2) and a connecting device (39) for a water pipe (24) for refilling the container (12) with flushing water, characterized in that either a partial flushing process or full flushing process can be carried out.
2. The flushing device as claimed in claim 1, characterized in that it has a power-loaded part (50) which, in the event of a partial flushing process, moves a valve member (7) of an evacuation fitting (6) and, as a result, the flushing process is prematurely interrupted.
3. The flushing device as claimed in claim 2, characterized in that the power-loaded part (50) is mounted displaceably in the evacuation fitting (6).
4. The flushing device as claimed in claim 3, characterized in that the power-loaded part (50) is spring-loaded in the inoperative position.
5. The flushing device as claimed in claim 2, characterized in that the power-loaded part (50) is mounted in the piston mentioned (16).
6. The flushing device as claimed in claim 2, characterized in that the power-loaded part (50) is retained releasably in its inoperative position.
7. The flushing device as claimed in claim 6, characterized in that the power-loaded part (50) is locked releasably in its inoperative position.

8. The flushing device as claimed in claim 7, characterized in that a locking device (48) is provided for retaining the power-loaded part (50), said locking device having a slide (32) which interacts with the power-loaded part (50) at the upper end thereof.

9. The flushing device as claimed in claim 1, characterized in that a piston (16) is fastened to a sealing member (7) at the upper end thereof and has an internal space (17) in which means (49, 50) for the optional premature closing of the outlet valve (6) are mounted.

15 10. The flushing device as claimed in claim 1, characterized in that means (49, 50) for the optional premature closing of the evacuation fitting (6) have a downwardly protruding section (35) which bears against the sealing member (7) when the evacuation fitting (6) 20 is open.

11. The flushing device as claimed in claim 1, characterized in that control means (55) are provided and, in the event of a partial flushing process, 25 automatically interrupt the flushing process.

12. The flushing device as claimed in claim 11, characterized in that the control means (55) have a level sensor (57) which interrupts the flushing process 30 when a predetermined level of the flushing water (14) is reached.

13. The flushing device as claimed in one of claims 1 to 12, characterized in that the actuating device (56) 35 has at least two buttons (A, B), one button (A) being provided for a full flushing process and the other button (B) being provided for a partial flushing process.

14. The flushing device as claimed in claim 1, characterized in that the container (201) has two chambers (204, 205) which are connected to each other, 5 only one of the chambers (204, 205) being emptied during a partial flushing process and both chambers (204, 205) being emptied during a full flushing process.

10 15. The flushing device as claimed in claim 14, characterized in that each chamber (204, 205) can be emptied by its own piston (202, 203).

15 16. The flushing device as claimed in claim 1, characterized in that the container (301) has two chambers (305, 306) which are separated from each other and of which only one is emptied during a partial flushing process and both are emptied during a full flushing process.

20 17. The flushing device as claimed in claim 16, characterized in that each of the two chambers (305, 306) has its own piston (303, 304) for discharging flushing water from the corresponding chamber (305, 25 306).

30 18. The flushing device as claimed in claim 1, characterized in that the container (401) has a spring-loaded piston (402), and in that a pressurized air layer (406) is enclosed between the piston (402) and the flushing water (407).

35 19. An evacuation fitting for a flushing device as claimed in claim 1, characterized in that it has a power-loaded part (50) which, in order to interrupt a flushing process, interacts with a sealing member (7) in order to move the latter into the sealing position.

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20. The evacuation fitting as claimed in claim 19, characterized in that the power-loaded part (50) is designed as a piston and, in order to interrupt the flushing process, is mounted displaceably in a guide 5 tube (34).

21. The evacuation fitting as claimed in claim 19 or 20, characterized in that it is connected to a control device (55) which, in the event of a partial flushing 10 process, automatically closes the valve of the evacuation fitting.

22. A system comprising a flushing device and a toilet bowl, the flushing device having at least one 15 pressurized chamber (15, 115, 204, 205, 305, 306) from which flushing water can be supplied by at least one pipe (106, 209, 307) to a flushing duct (111, 310) of the toilet bowl (109, 212, 309), characterized in that the flushing device is designed in such a manner that 20 water under pressure can optionally be supplied in at least two different quantities to the flushing duct (111, 310).

23. The system as claimed in claim 22, characterized 25 in that the water under pressure is distributed to two pipes (107, 108; 210, 211; 307, 308), a first part being delivered into the flushing duct (111, 310) and a second part being delivered into a nozzle (112, 311) for flushing out a siphon (113, 213).

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24. The system as claimed in claim 22, characterized in that the flushing device (300) has two outlet pipes (307, 308), one outlet pipe (307) leading to the flushing duct (310) and the other outlet pipe (308) 35 leading to a nozzle (311) in the lower region of the toilet bowl (309).

25. The system as claimed in claim 24, characterized

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in that the flushing device (300) is designed in such a manner that the flushing water can be delivered either into the first or the second outlet pipe (307, 308) or into both outlet pipes (307, 308).